

## CE 4000 SPECIFICATIONS

Note: All measurements relate to 120-volt 60-Hz units in Stereo mode with 8-ohm loads and an input sensitivity of 26-dB gain at 1-kHz rated power unless otherwise specified.

### Power

#### Output Power:

(See power chart in center of page)

**Load Impedance:** Safe with all types of loads. Rated for 2, 4 and 8 ohms in Stereo mode, 4 and 8 ohms in Bridge-Mono mode.

#### Voltage Gain to 1-kHz,

**8-ohm Rated Output:** 39.0-dB gain at 0.775-volt sensitivity; 33.8-dB gain at 1.4-volt sensitivity; 26-dB gain at 3.46-volt sensitivity.

#### Required AC Mains:

50/60 Hz, 100-240VAC ( $\pm 10\%$ ).

AC Line Current:

100 Volts: 8.5 A;

120 Volts: 7.1 A;

230-240 Volts: 3.7 A;

At Idle: Amp draws  $\leq 140$  watts.

**AC Line Connector:** 15A IEC Connector with Country-Specific Cord and Plug.

### Performance

**Frequency Response:**  $\pm 0.25$  dB from 20 Hz to 20 kHz at 1 watt.

**Phase Response:**  $\pm 15$  degrees deviation from linear phase from 20 Hz to 20 kHz at 1 watt.

#### Signal to Noise Ratio:

**A-Weighted, 20 Hz to 20 kHz:** Better than 102 dB below rated 1-kHz power.

**Total Harmonic Distortion (THD):** 1-kHz rated power, 0.5% or less THD from 20 Hz to 20 kHz.

**Intermodulation Distortion (IMD):** (60 Hz and 7 kHz at 4:1) Less than 0.5% at rated power to 30 dB below rated power at 8 ohms.

**Damping Factor:** Greater than 700 from 10 Hz to 400 Hz.\*

**Crosstalk:** Better than 50 dB below rated power, 20 Hz to 20 kHz.

**Common Mode Rejection (CMR):** Better than 70 dB from 20 Hz to 1 kHz.

**DC Output Offset (Shorted Input):**  $\pm 10$  mV.

### Controls

**Level:** A detented rotary level control for each channel located on the front panel.

**Power:** An on/off rocker switch located on the front panel.

**Mode:** A two-position switch located on the back panel which,

when turned to stereo, operates the amplifier as two independent channels. When "Bridge-Mono" mode is selected, the amplifier bridges the two output channels for twice the output voltage.

**Sensitivity:** A three-position switch located on the back panel next to the Mode switch. Switchable among 0.775 volts or 1.4 volts for full output into an 8-ohm load (default setting), or 3.46 volts for a fixed voltage gain of 26 dB.

### Filter Switches

**High-Pass:** A four-position switch for each channel located on the back panel below the input and output modules. Switchable among settings for Flat, 30 Hz, 40 Hz and 50 Hz. Filter rolloff is 18-dB per octave.

**Low-Pass:** A three-position switch for each channel located on the back panel below the input and output modules. Switchable among settings for Flat, 80 Hz and 100 Hz. Filter rolloff is 24-dB per octave.

### Indicators

**Signal:** A green LED for each channel which flashes when a very low-level signal ( $> -40$  dBm) is present at input. May be used for trouble-shooting cable runs.

**Clip:** A red LED for each channel which turns on when distortion becomes audible in the amplifier output.

**Fault:** Normally off, this red indicator will blink under five different conditions:

1. When the amplifier is first powered up, until the unit is ready for operation.
2. If the heatsinks reach a temperature above normal working limits.
3. If the transformer thermal protection circuit is activated.
4. If amplifier output wires develop a short-circuit.
5. Should the amplifier output stage become non-operational.

This circuit may be monitored remotely by plugging a simple switching circuit using an LED or other signaling device into the back-panel RJ-11 (Fault) jack. Under some conditions, the output of the amplifier will be muted.

**Power:** A green LED that turns on when the amplifier has been turned on and has power.

### Input/Output

#### Input

**Input Connector:** (standard module): One Neutrik Combo connector for each channel which features a balanced 1/4"-inch (6.35-mm) phone jack and a 3-pin female XLR connector, in parallel with a barrier strip termination.

**Input Stage:** Input is electronically balanced and employs precision 1% resistors.

**Input Impedance:** Nominally 20 k ohms, balanced. Nominally 10 k ohms, unbalanced.

**Input Sensitivity:** 0.775 volts or 1.4 volts for standard 1-kHz power, or fixed 26-dB gain.

#### Output

**Output Connectors:** Three options available: Four (4) Neutrik Speakon® NL4MP (mates with NL4FC) output connectors; 5-way binding post in parallel with two (2) Speakon® connectors; or barrier strip outputs in parallel with two (2) 5-way binding posts.

**Output Signal, Stereo:** Unbalanced, two-channel;

**Bridge-Mono:** Balanced, single-channel. Channel 1

controls are active; Channel 2 should be turned down.

### Protection

CE Series amplifiers are protected against shorted, open or mismatched loads; overloaded power supplies; excessive temperature, chain destruction phenomena, input overload damage and high-frequency blowups. They also protect loudspeakers from input/output DC, large or dangerous DC offsets and turn-on/turn-off transients.

### Options

**Accessories:** CE-HANDLES—handle kit.

**Service Options:** SST-SBSC—variable Linkwitz-Riley stereo crossover

with mono-summed sub-bass outputs; SST-MX—100-Hz Linkwitz-Riley crossover with stereo sub-bass outputs; SST-SX—80-/120-Hz switchable Linkwitz-Riley crossover with mono-summed sub-bass output; CE4D—two (2) 5-way binding posts in parallel with two (2) Neutrik Speakon® NL4MP output connectors; CE4C—barrier strip outputs in parallel with two (2) 5-way binding posts; CE4E—four (4) Neutrik Speakon® NL4MP output connectors.

### Construction

Rugged steel chassis is formed into a durable package any stage-hand could love. Coated with environmentally friendly powder for long life and ease of maintenance.

**Cooling:** Quiet, proportional 3-speed Fan-on-Demand.

**Dimensions:** EIA Standard 19-inch rack mount width (EIA RS-310-B), 5.25-inch (13.34-cm) height and 16.25-inch (36.56-cm) depth with additional 1-inch rear rack ears.

**Weight:** The CE 4000 Net Weight is 33.3 pounds (15.1 kg). Shipping weight is 39.3 pounds.

\* Measured using binding-post output connectors.

### Crown's Three-Year, No-Fault, Full Warranty

Crown offers a Three-Year, No-Fault, Full Warranty for every new Crown amplifier—an unsurpassed industry standard. With this unprecedented No-Fault protection, your new Crown amplifier is warranted to meet or exceed original specifications for the first three years of ownership. During this time, if your amplifier fails, or does not perform to original specifications, it will be repaired or replaced at our expense. About the only things not covered by this warranty are those losses normally covered by insurance and intentional abuse. And the coverage is transferable should you sell your amplifier.

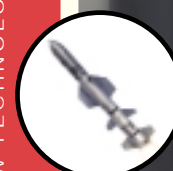
See your authorized Crown dealer for full warranty disclosure and details. For customers outside of the USA, please contact your authorized Crown distributor for warranty information or call 219-294-8200.

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## CE 4000

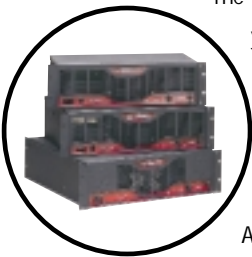
NEW TECHNOLOGY  
FLEXIBILITY  
LIGHTER-WEIGHT



THE LATEST INNOVATION IN AMP TECHNOLOGY



## THE NEXT GENERATION CE AMPLIFIER



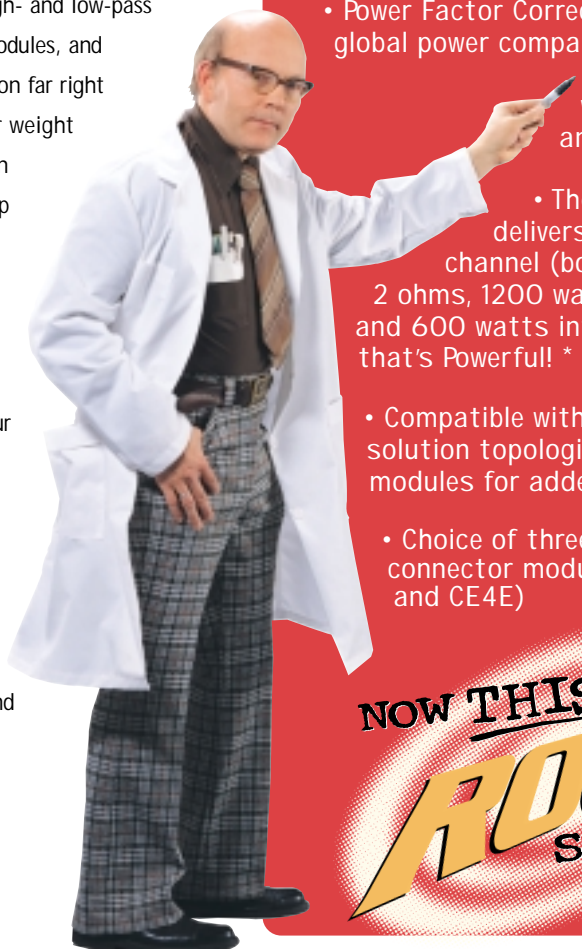
The CE 4000 is the result of over 30 years of Crown amplifier design experience. And it's the best of all worlds thanks to unique features like Crown's patented, award-winning Balanced Current Amplifier (BCA®) technology. BCA gives the CE 4000 superior power output with increased efficiency plus legendary Crown sound and reliability. In stress tests, the CE 4000 continued to perform at levels 12 dB into clip long after other brands had shut down! Flexibility is unsurpassed thanks to features like selectable on-board high- and low-pass filter sets, optional signal control modules, and dual output connectors (see details on far right page). Consider the CE 4000's lighter weight (just 34 pounds) and modern design when you compare our new-tech amp to the other guys.

## YOUR KEY BENEFITS

Whether you're a touring band, DJ, A/V rental company or looking for a fixed install amp, the CE 4000 is your best option. Here's why:

- High power, high efficiency
- Cost effective and reliable
- Less heat and lighter weight
- Global power compatibility
- Modular input/output options
- On-board selectable high-pass and low-pass filters

\* see power chart on back



## CE 4000 MAJOR FEATURES

• Patented and award winning, Crown's Balanced Current Amplifier (BCA) switching technology is an engineering advancement. BCA will generate more power and less heat than traditional linear amplifiers

• Crown's Switch Mode Power Supply allows enormous power and performance with much less weight—it's only 34 pounds!

• Power Factor Correction (PFC) for global power compatibility means your CE 4000 will work with any line voltage

• The Crown CE 4000 delivers 1800 watts per channel (both driven) into 2 ohms, 1200 watts into 4 ohms, and 600 watts into 8 ohms—now that's Powerful! \*

• Compatible with Crown's system solution topologies (SST) input modules for added flexibility

• Choice of three dual output connector modules (CE4D, CE4C and CE4E)

**NOW THIS IS  
ROCK-IT  
SCIENCE**

## CE 4000



### POWER

Amplifier is automatically muted during power up to avoid turn-on transients. Green LED indicates power to amplifier.

### PROTECTION CIRCUITS

Protection from shorted, open or mis-matched loads, input and high-frequency overloads. Loudspeakers protected from in/out DC, and power on/off transients.

### CLIP

Red LED for each channel that turns on when distortion becomes audible in the amplifier output.

### 5-WAY FAULT INDICATOR

1) blinks during power-up; 2) excessive heatsink temperature; 3) transformer thermal protection; 4) short at amplifier output; 5) output stage non-operational.

### SIGNAL

The green LED illuminates when a signal is present at the input of the amplifier before the gain controls—useful in troubleshooting system wiring problems.

### DETENTED LEVEL CONTROLS

31-step detented rotary level control for each channel.



### SST MODULES

Active crossovers with signal routing available with optional system solution topology modules (SST-SBSC, SST-SX and SST-MX).

### MODE SELECT SWITCH

In Stereo mode operates amplifier as two independent channels. In Bridge mode it bridges two channels for twice the output voltage.

### SENSITIVITY SWITCH (3 WAY)

Switchable among 0.775, 1.4 or 3.46 volts for full output into 8-ohm load.

### 3-SPEED FAN

Quiet, proportional speed Fan-on-Demand.

### HIGH-PASS FILTER SWITCH

4-position, selectable switch providing settings for Flat, 30, 40 and 50 Hz. Filter rolloff is 18 dB per octave.

### LOW-PASS FILTER SWITCH

3-position, selectable switch providing settings for Flat, 80 and 100 Hz. Filter roll-off is 24 dB per octave.

### GLOBAL POWER SUPPLY

Enhanced switch-mode power supply (with PFC) results in a universal power supply so you can plug it in anywhere.

## CE 4000 OUTPUT MODULES



### CE4D

Standard module provides one Neutrik NL4 per channel and one pair binding post per channel.



### CE4C

Contractor module provides one pair binding post per channel and one barrier strip.



Touch-proof cover plate for CE4C module.



### CE4E

Dual Speakon® module provides two Neutrik NL4's per channel.